Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-62 canceled.

- 63. (New) A method for the inhibition of apoptosis, comprising contacting a cell with an effective amount of a substance capable of inhibiting the activity of adenine nucleotide translocase-1 (ANT-1).
- 64. (New) The method of claim 63, wherein said cell is a mammalian cell.
- 65. (New) The method of claim 64, wherein said cell is associated with a pathogenic disorder.
- 66. (New) The method of claim 63, wherein the activity of ANT-1 is inhibited on the nucleic acid level.
- 67. (New) The method of claim 66, wherein the inhibition is effected by reducing ANT-1 gene expression.

- 68. (New) The method of claim 66, wherein the activity of the endogenous ANT-1 promoter is reduced.
- 69. (New) The method of claim 63, wherein the activity of ANT-1 is inhibited on the protein level.
- 70. (New) The method fo claim 69, wherein the inhibition is effected by adding ANT-1 protein antagonists.
- 71. (New) The method of claim 70, wherein the antagonist is cyclophilin D.
- 72. (New) The method of claim 63, wherein an apoptosis-inducing signal transduction pathway is inhibited, said pathway being activated by ANT-1.
- 73. (New) A method for the treatment of diseases associated with excessive apoptosis, comprising the step of administering to a subject in need thereof a pharmaceutically effective amount of a substance capable of inhibiting the activity of adenine nucleotide translocase (ANT-1).
- 74. (New) The method of claim 73, wherein the disease is a degenerative disease.

- 75. (New) The method of claim 74, wherein the disease is dilated cardiomyopathy.
- 76. (New) A method for identifying substances suitable for apoptosis inhibition comprising the step of determining the capability of a test substance to inhibit the activity of ANT-1.
- 77. (New) The method of claim 76, wherein the capability of a test substance to bind ANT-1 or a domain thereof is determined.
- 78. (New) The method of claim 76, wherein the capability of a test substance to bind the N-terminal domain of ANT-1 is determined.
- 79. (New) The method of claim 76, wherein the capability of a test substance to inhibit the binding of ANT-1 to natural binding partners thereof is determined.
- 80. (New) The method of claim 76, which is carried out as a high-throughput assay.
- 81. (New) The method of claim 80, comprising a parallel determination of at least 96 test compounds.
- 82. (New) The method of claim 76, which is carried out as a cell-based assay.

- 83. (New) The method of claim 81, which is carried out as an assay using ANT-1 containing cell fractions or ANT-1-containing whole cells.
- 84. (New) The method of claim 76, which is carried out as a molecular-based assay using an isolated protein selected from ANT-1 or a domain thereof.
- 85. (New) The method of claim 84, wherein a recombinant protein is used.
- 86. (New) The method of claim 76, wherein the determining step comprises the measurement of apoptosis induction.
- 87. (New) The method of claim 86, wherein the apoptosis induction is measured by a parameter selected from the group consisting of DNA fragmentation, caspase activation or characteristic alternations in cell morphology.
- 88. (New) A pharmaceutical composition comprising as an active agent an inhibitor of ANT1 activity, optionally together with pharmaceutically acceptable diluents, carriers or
 adjuvants.

- 89. (New) The pharmaceutical composition of claim 88 for use in the treatment of diseases associated with excessive apoptosis.
- 90. (New) The composition of claim 89 for use in the treatment of human diseases.
- 91. (New) The composition of claim 90 for use in the treatment of dilated cardiomyopathy.
- 92. (New) A method for the diagnosis of an apoptotic process in a degenerative disease or a predisposition therefor comprising detecting the ANT-1 expression in a sample from tissue and/or body fluids of a subject to be tested, wherein elevated ANT-1 expression is indicative for an apoptotic process occurring in a degenerative disease or a predisposition therefor.
- 93. (New) The method of claim 92, wherein the degenerative disease is dilated cardiomyopathy.